

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (original) A multi-mode cellular phone
2 terminal comprising:

3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;

5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and

8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,

12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems.

1 Claim 2 (currently amended) A multi-mode cellular
2 phone terminal according to claim 1, wherein said signal
3 processing means can support a plurality of different bit
4 rates and modulation systems by using ~~the~~ a same

5 communications control system.

1 Claim 3 (original) A multi-mode cellular phone
2 terminal according to claim 1, wherein communications
3 control means can support different communications control
4 systems and that said signal processing means can support
5 different bit rates and modulation systems.

1 Claim 4 (currently amended) A multi-mode cellular
2 phone terminal according to claim 2, wherein ~~said~~ a clock
3 having a frequency necessary for modulation/demodulation at
4 a plurality of different bit rates is generated by
5 frequency division means for making integral frequency
6 division via different dividing number or fractional
7 frequency division of a common reference clock output from
8 a single oscillator.

1 Claim 5 (currently amended) A multi-mode cellular
2 phone terminal according to claim 3, wherein ~~said~~ a clock
3 having a frequency necessary for modulation/demodulation at
4 a plurality of different bit rates is generated by
5 frequency division means for making integral frequency
6 division via different dividing number or fractional
7 frequency division of a common reference clock output from
8 a single oscillator.

1 Claim 6 (original) A multi-mode cellular phone
2 terminal according to claim 2, wherein said signal
3 processing means executes modulation/demodulation
4 supporting a plurality of communications systems and has a
5 signal processor composed of common hardware and memory
6 storing a plurality of signal processing programs.

1 Claim 7 (original) A multi-mode cellular phone
2 terminal according to claim 3, wherein said signal
3 processing means executes modulation/demodulation
4 supporting a plurality of communications systems and has a
5 signal processor composed of common hardware and memory
6 storing a plurality of signal processing programs.

1 Claim 8 (original) A multi-mode cellular phone
2 terminal according to claim 2, wherein said signal
3 processing means has a signal processor composed of common
4 hardware and read/write memory storing the minimum signal
5 processing programs to support each communications system.

1 Claim 9 (original) A multi-mode cellular phone
2 terminal according to claim 3, wherein said signal
3 processing means has a signal processor composed of common
4 hardware and read/write memory storing the minimum signal
5 processing programs to support each communications system.

1 Claim 10 (original) A multi-mode cellular phone
2 terminal according to claim 3, wherein said communications
3 control means has a controller supporting a plurality of
4 communications systems and memory storing control programs
5 supporting the multi-mode.

1 Claims 11 (original) A multi-mode cellular phone
2 terminal according to claim 4, wherein said multi-mode
3 cellular phone terminal has a system timer for switching
4 over a plurality of clocks generated by said frequency
5 division means and counting different timings to support a
6 plurality of communications systems.

1 Claims 12 (original) A multi-mode cellular phone
2 terminal according to claim 5, wherein said multi-mode
3 cellular phone terminal has a system timer for switching
4 over a plurality of clocks generated by said frequency
5 division means and counting different timings to support a
6 plurality of communications systems.

1 Claim 13 (currently amended) A multi-mode cellular
2 phone terminal ~~according to claim 10, comprising~~
3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;
5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication

7 means; and

8 communications control means for controlling said

9 radio communications means and said signal processing

10 means, said multi-mode cellular phone terminal supporting

11 a plurality of communications systems,

12 wherein said radio communications means is composed of

13 hardware to be use in common by a plurality of

14 communications systems, and said signal processing means is

15 composed of hardware to execute signal processing

16 supporting a plurality of communications systems,

17 wherein communications control means can support

18 different communications control systems and that said

19 signal processing means can support different bit rates and

20 modulation systems,

21 wherein said communications control means has a

22 controller supporting a plurality of communications systems

23 and memory storing control programs supporting the multi-

24 mode, and

25 wherein said multi-mode cellular phone terminal

26 establishes connection of a voice call or data

27 communications by switching over and counting a plurality

28 of timings to support a plurality of communications systems

29 and maintaining the system timing synchronization

30 supporting a plurality of communications systems.

1 Claim 14 (currently amended) A multi-mode cellular

2 phone terminal ~~according to claim 11,~~ comprising

3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;

5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and

8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,

12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems,

17 wherein communications control means can support
18 different communications control systems and that said
19 signal processing means can support different bit rates and
20 modulation systems,

21 wherein said multi-mode cellular phone terminal has a
22 system timer for switching over a plurality of clocks
23 generated by said frequency division means and counting
24 different timings to support a plurality of communications
25 systems, and

26 wherein said multi-mode cellular phone terminal
27 establishes connection of a voice call or data

28 communications by switching over and counting a plurality
29 of timings to support a plurality of communications systems
30 and maintaining the system timing synchronization
31 supporting a plurality of communications systems.

1 Claim 15 (currently amended) A multi-mode cellular
2 phone terminal ~~according to claim 12,~~ comprising
3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;
5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and
8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,
12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems,
17 wherein communications control means can support
18 different communications control systems and that said
19 signal processing means can support different bit rates and
20 modulation systems,
21 wherein a clock having a frequency necessary for

22 modulation/demodulation at a plurality of different bit
23 rates is generated by frequency division means for making
24 integral frequency division via different dividing number
25 or fractional frequency division of a common reference
26 clock output from a single oscillator, and

27 wherein said multi-mode cellular phone terminal
28 establishes connection of a voice call or data
29 communications by switching over and counting a plurality
30 of timings to support a plurality of communications systems
31 and maintaining the system timing synchronization
32 supporting a plurality of communications systems.

1 Claim 16 (original) A multi-mode cellular phone
2 terminal according to claim 13, characterized in that said
3 multi-mode cellular phone terminal performs a handover
4 between different communications systems by providing
5 monitoring means for monitoring the receiving state to
6 support the communications system of the handover
7 destination in the idle period of an established
8 communications system in connecting a voice call or data
9 communications and by maintaining the system timing
10 synchronization to support the communications system of the
11 handover destination.

1 Claim 17 (original) A multi-mode cellular phone
2 terminal according to claim 14, characterized in that said

3 multi-mode cellular phone terminal performs a handover
4 between different communications systems by providing
5 monitoring means for monitoring the receiving state to
6 support the communications system of the handover
7 destination in the idle period of an established
8 communications system in connecting a voice call or data
9 communications and by maintaining the system timing
10 synchronization to support the communications system of the
11 handover destination.

1 Claim 18 (original) A multi-mode cellular phone
2 terminal according to claim 15, characterized in that said
3 multi-mode cellular phone terminal performs a handover
4 between different communications systems by providing
5 monitoring means for monitoring the receiving state to
6 support the communications system of the handover
7 destination in the idle period of an established
8 communications system in connecting a voice call or data
9 communications and by maintaining the system timing
10 synchronization to support the communications system of the
11 handover destination.